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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit : 1638
Examiner : A. Kubelik
Serial No. : 09/251,638
Filed : 02/17/99
Applicant : Henry Daniell
Title : GENETIC ENGINEERING
: OF COTTON TO INCREASE
: FIBER STRENGTH, WATER
: ABSORPTION AND
: DYE BINDING

Customer No. 022469

Docket: 1483-R-00

Dated: November 8, 2001

TECH CENTER 1600/2900
JAN 15 2002

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AMENDMENT AND ARGUMENT

Commissioner for Patents
Washington, DC 20231

Sir:

In response to the Official Action dated August 8, 2001, Applicants amend as follows:

Marked-Up Version Showing Changes Made to the Claims

1. (Amended) A transgenic cotton plant comprising fiber cells stably transformed with an expression cassette comprising a gene encoding a an elastic and plastic protein based polymer (PBP) exhibiting wherein said fiber cells exhibit improved increased water absorption, thermal characteristics, fiber strength, chemical reactivity including elasticity, and dye binding capacity relative to untransformed fiber cells.

2. (Amended) The transgenic cotton plant of claim 1, which contains wherein said gene encodes the repetitive amino acid sequence GVGVP Gly-Val-Gly-Val-Pro (SEQ. ID. NO. 2).

3. (Amended) A expression cassette which comprises comprising a fiber specific promoter driving the expression of a gene encoding an elastic and plastic protein